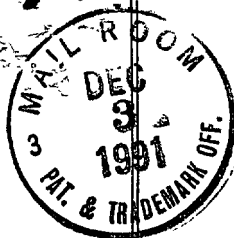


07/803264



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : Ronald A. Katz)
SERIAL NO. : NOT ASSIGNED YET) Examiner: T. Brown
FILED :) In Parent
FOR : TELEPHONIC-INTERFACE) Art Unit: 261
STATISTICAL ANALYSIS)
SYSTEM)
DOCKET NO. : 4646-101NB)

#3B
R. Logan
3-5-92

PRELIMINARY AMENDMENT

December 3, 1991
201 North Figueroa Street
Los Angeles, California 90012

fee
ok

Commissioner of Patents
and Trademarks
Washington, D. C. 20231

Sir:

Prior to examination, please amend as follows the
above-identified patent application which is a continuation of
Application Serial No. 07/640,337 filed on January 11, 1991:

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited
with the United States Postal Service on the date shown below
with sufficient postage as first class mail in an envelope
addressed to the: Commissioner of Patents and Trademarks,
Washington, D. C. 20231.

Date: December 3, 1991

Reena Kuyper
Reena Kuyper

IN THE SPECIFICATION:

E /

On page 1, at line 1 of the first paragraph, after "This" insert ~~is a continuation~~ of Application Serial No. 07/640,337 filed January 11, 1991 and entitled "Telephonic-Interface Statistical Analysis System" which is a continuation of Application Serial No. 335,923 filed April 10, 1989 and entitled "Telephonic-Interface Statistical Analysis System" which is a continuation of Application Serial No. 194,258 filed May 16, 1988 and entitled "Telephonic-Interface Statistical Analysis System," now U.S. Patent No. ^{4,845,739}~~484,739~~ issued July 4, 1989, which ~~is~~.

B2

Page 1, line 5, after "Facility" insert ~~is~~, now U.S. Patent No. 4,792,968, issued December 20, 1988, ~~is~~.

Page 1, line 8, after "Facility" and before the period insert --, now abandoned--.

Page 4, line 21, delete "and".

Page 4, line 23, delete the period at the end of the line and substitute therefor --; and--.

B3

Page 4, line 24, insert ~~is~~ FIGURE 9 is a block diagram of the connections between the CPU and remote stations. ~~is~~

B4

Page 21, line 16, delete "(by voice cue) to provide" and substitute therefor ~~is~~ by the voice generator to provide (by voice) ~~is~~.

Page 25, line 28, after "currently" insert --a--.

--100--.

IN THE CLAIMS:

Please cancel Claim 1 and add Claims 29-52
(numbered consecutively from the original application as filed
in the parent case U.S. Serial No. 07/640,337).

1 *Sub E of DEI 429* An analysis control system for use with a
2 communication facility including remote terminal apparatus for
3 individual callers, wherein said remote terminal apparatus may
4 comprise a conventional telephone instrument including voice
5 communication means and digital input means in the form of an
6 array of alphabetic numeric buttons for providing data, said
7 analysis control system comprising:

BS
(cont'd)
8 interface structure selectively coupled to said
9 communication facility to interface said terminal apparatus
10 for voice and digital communication and including means to
11 provide signals representative of data developed by said
12 terminal apparatus;

13 voice generator structure selectively coupled
14 through said interface structure to said terminal apparatus
15 for providing vocal operating instructions to individual ones
16 of said callers;

17 record memory means connected to said interface
18 structure for initiating a file and storing data relating to

19 certain select ones of said individual callers;
20 designation structure means selectively coupled to
21 said interface structure and said record memory means for
22 assigning individual designations to callers and storing said
23 designations in said record structure; and
24 analysis structure connected to said record memory
25 means for processing said data relating to certain select ones
26 of said individual callers to isolate a subset of said
27 callers. ✓

B5
cont'd
1 ²
2 ~~30~~. An analysis control system according to
3 claim ¹~~29~~ wherein said analysis structure isolates a subset
4 of said callers by inter-related processing with said
5 data relating to certain select ones of said individual
6 callers. ✓

7 ~~31~~. An analysis control system according to
8 claim 30 further including a random number generator to
9 isolate a subset. ✓
Sub C2

1 ⁴
2 ~~32~~. An analysis control system according to
3 claim ¹~~29~~ further including memory means for storing cue
4 questions for said callers and random selection means for
5 addressing said memory means to actuate said voice generator
structure. ✓

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⁵
~~433~~. An analysis control system according to
claim ¹~~29~~ wherein said designation structure means includes
means for storing sequence data indicative of the calling
sequence of said individual callers. ~~to~~

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⁶
~~434~~. An analysis control system according to
Claim ⁵~~33~~ wherein said sequence data is indicative of caller
significance. ~~to~~

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⁷
~~435~~. An analysis control system according to
claim ¹~~29~~ further including acknowledgement means for
confirming caller designations as provided to a caller. ~~to~~

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⁸
~~436~~. An analysis control system according to
claim ¹~~29~~ wherein said voice generator structure is driven to
prompt said certain select ones of said callers to provide
telephone number data for storage in said record memory
means. ~~to~~

1
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⁹
~~437~~. An analysis control system according to
claim ¹~~29~~ wherein said analysis structure includes a random
number generator. ~~to~~

1

~~438. An analysis control system for use with a
communication facility including remote terminal apparatus for
individual callers, wherein said remote terminal apparatus may~~

4 comprise a conventional telephone instrument including voice
5 communication means and digital input means in the form of an
6 array of alphabetic numeric buttons for providing data, said
7 analysis control system comprising:

8 interface structure selectively coupled to said
9 communication facility to interface said terminal apparatus
10 for voice and digital communication and including means to
11 provide signals representative of data developed by said
12 terminal apparatus;

13 voice generator structure selectively coupled
14 through said interface structure to said terminal apparatus
15 for providing vocal operating instructions to individual ones
16 of said callers;

17 record memory means selectively connected to said
18 interface structure for initiating a file and storing data
19 relating to certain select ones of said individual callers;

20 designation structure means selectively coupled to
21 said interface structure and said record memory means for
22 assigning individual designations to callers and storing said
23 designations in said record structure;

24 analysis structure connected to said record memory
25 means for processing said data relating to certain select ones
26 of said individual callers to isolate a subset of said
27 callers; and

28 qualification structure for qualifying the
29 operation of said analysis structure under control of said

30 signals representative of data developed by said terminal
31 apparatus. ~~4~~

1 ~~439.~~ An analysis control system for use with a
2 communication facility including remote terminal apparatus for
3 individual callers, wherein said remote terminal apparatus may
4 comprise a conventional telephone instrument including voice
5 communication means and digital input means in the form of an
6 array of alphabetic numeric buttons for providing data, said
7 analysis control system further for use with a manual terminal
8 for selectively interfacing the individual callers, said
9 analysis control system comprising:

B5
cont'd
10 an interface structure selectively coupled to said
11 communication facility to interface said terminal apparatus
12 for voice and digital communication and including means to
13 provide signals representative of data developed by said
14 terminal apparatus;

15 voice generator structure selectively coupled
16 through said interface structure for actuating said terminal
17 apparatus as to provide vocal operating instructions to an
18 individual caller;

19 record means selectively connected to said
20 interface structure for initiating a file and storing digital
21 data relating to said callers provided from said digital input
22 means;

23 abort means, operative under predetermined

24 conditions for passing communication data from said record
25 structure to said manual terminal and coupling said manual
26 terminal to interface a caller directly. *lv*

1 ~~40.~~ An analysis control system according to
2 Claim 39 wherein said interface structure includes an
3 automatic call distributor. *lv*

1 ~~41.~~ A control system in accordance with claim 39
2 wherein said record means includes memory means and a buffer
3 assembly register for receiving data from a caller and said
4 memory. *lv*

B5 Cont'd
1 *Sub E3* ~~42.~~ A controlled interface system for use with a
2 telephonic communication facility including remote terminals
3 for individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument, and wherein said
5 telephone communication facility may provide called terminal
6 digital signals to a called station representative of the
7 called station, said controlled interface system comprising:
8 function unit means for supplying information of
9 various formats, at least one of said formats being associated
10 with an audio broadcast;
11 interface means for interfacing said telephonic
12 communication facility with said function unit means for voice
13 and digital communication including means to receive terminal

1 formed digital signals and means to provide signals
2 representative of vocal communication to individual callers,
3 said interface means further including means for voice
4 communication to cue callers for actuating said remote
5 terminals to provide terminal-formed signals; and

6 coupling means for coupling a specific caller at a
7 terminal through said interface means to said function unit
8 means for selective communication in accordance with a
9 specific one of said formats under control of said called
10 terminal digital signals. ~~42~~

12
~~443~~. A controlled interface system in accordance
11
2 with claim ~~42~~ wherein said coupling means is controlled by
3 said terminal-formed signals. ~~44~~

B5
Cont'd
13
~~444~~. A controlled interface system in accordance
11
2 with claim ~~42~~ wherein said interface means further includes
3 means for voice communication to cue callers for actuating
4 said remote terminals to provide terminal-formed signals and
5 including memory means for storing representations of said
6 terminal-formed signals in the form of billing identification
7 data. ~~44~~

14
~~445~~. A controlled interface system in accordance
13
2 with claim ~~44~~ and further including qualification means for
3 qualifying callers and wherein said coupling means is further

4 controlled by said qualification means. *lv*

Sub E4
1 46. A communication process for use with a
2 telephone communication facility including remote terminal
3 apparatus for use by individual callers, wherein said remote
4 terminal apparatus may comprise a conventional telephone
5 instrument, and wherein said telephone communication facility
6 provides called terminal digital signals to a called station
7 representative of the called station, said communication
8 process comprising:

9 providing information signals of various formats
10 representative of vocal information in accordance with various
11 formats;

B5
cont'd
12 interfacing said communication facility to said
13 remote terminal apparatus to receive terminal formed digital
14 signals and selectively provide said information signals for
15 providing vocal communication to individual callers; and

16 controlling the interfacing to said communication
17 facility to provide said information signals to said remote
18 terminal apparatus selectively with respect to said various
19 formats in accordance with said called terminal signals
20 whereby a caller selectively receives information in
21 accordance with a predetermined format. *lv*

Sub FI
1 47. A statistical analysis system for use with a
2 communication facility including remote terminal apparatus for

3 individual callers, wherein said remote terminal apparatus may
4 comprise a conventional telephone instrument including voice
5 communication means, and digital input means in the form of an
6 array of alphabetic numeric buttons for providing
7 identification and statistical data, said statistical analysis
8 system comprising:

9 interface means selectively coupled to said
10 communication facility to interface said terminal apparatus
11 for voice and digital communication and including means to
12 provide signal values from data developed by said terminal
13 apparatus;

14 voice generator means selectively coupled through
15 said interface means to said terminal apparatus for providing
16 vocal operating instructions to an individual caller; and

17 processing means including a random number
18 generator means for providing processing data, said processing
19 means for isolating a subset of said individual callers based
20 on said processing data.

1 ⁴⁸48. An analysis system according to claim 47
2 wherein said processing means includes a comparator means for
3 comparing processing data from said random number generator
4 means with data associated with a caller.

1 ¹⁷~~49~~49. An analysis system according to claim ¹⁵~~47~~
2 wherein said processing means processes said processing data

3 in combination with said identification and statistical
4 data. ~~44~~

1 ¹⁸~~450~~. An analysis system according to claim ¹⁵~~47~~
2 further including means for receiving signal values from data
3 developed by said terminal apparatus for qualifying the
4 operation of said processing means. ~~46~~

1 ¹⁹~~451~~. An analysis system according to claim ¹⁸~~50~~
2 wherein said values from data developed by said terminal
3 apparatus represents the designation of an interfaced terminal
4 apparatus. ~~47~~

B5
cont'd
1 ~~452~~. An analysis control system for use with a
2 communication facility including remote terminal apparatus for
3 individual callers, wherein said remote terminal apparatus may
4 comprise a conventional telephone instrument including voice
5 communication means and digital input means in the form of an
6 array of alphabetic numeric buttons for providing data, said
7 analysis control system further for use with a manual terminal
8 for selectively interfacing the individual callers, said
9 analysis control system comprising:

10 an interface structure selectively coupled to said
11 communication facility to interface said terminal apparatus
12 for voice and digital communication and including means to
13 provide signals representative of data developed by said

14 terminal apparatus;

15 voice generator structure selectively coupled
16 through said interface structure for actuating said terminal
17 apparatus as to provide vocal operating instructions to an
18 individual caller;

19 record means selectively connected to said
20 interface structure for initiating a file and storing digital
21 data relating to said callers;

22 abort means, operative under predetermined
23 conditions for passing communication data from said record
24 structure to said manual terminal and coupling said manual
25 terminal to interface a caller directly.

REMARKS

Claims 29-52 are numbered consecutively from the original application as filed in the parent case U.S. Serial No. 07/640,337. Claims 29-30, 32-33, 35-39, 41-51 in the instant application correspond to Claims 38-39, 40-42, 44-48, 53-54, 58-62, 64-67 transferred from the parent case. In the Office Action dated June 4, 1991 in the parent case, the Examiner rejected Claims 38-48, 53, 54, 58, 59 and 61-67 for being inaccurate and indefinite. Applicant has addressed each of the stated bases for the Examiner's 35 U.S.C. § 112 rejections in the parent application.

In particular, with respect to Claims 38, 46, 61 and 62 (present Claims 29, 38, 43 and 47), the claim language

has been amended from "actuating" said terminal apparatus to voice generator structure selectively coupled through said interface structure to the terminal apparatus for --providing-- vocal operating instructions to individual ones of said callers.

With respect to Claims 38, 46, 47 and 62 (present Claims 29, 38, 39 and 47), the claim language has been changed to define that the interface structure is --selectively-- coupled to the communication facility.

With respect to Claims 38, 46, 47 and 62 (present Claims 29, 38, 39 and 47), the claim language has been amended to define that the voice generator means is --selectively-- coupled through said interface structure. Likewise in Claims 38 and 46 (present Claims 29 and 38), the designation structure means is defined as --selectively-- coupled to said interface structure. With respect to Claim 47 (present Claim 39), the record means is defined as being --selectively-- connected to said interface structure.

Claims 53 and 58 (present Claims 42 and 44) have been amended to cue callers for actuating said remote --terminals--. Claim 59 (present Claim 45) has been amended to define qualification means for qualifying --callers--.

A sincere effort to provide proper antecedent basis and consistency with regard to all the terminology in the claims, in particular as indicated by the Examiner with respect to Claims 39, 46, 48, 53, 54, 58, 61, 62, 64 and 67

(present Claims 30, 38, 41, 42, 43, 44, 46, 47, 48 and 51) has been made. The Examiner is requested to notify the undersigned if correction of any informalities has been inadvertently omitted.

Claims 31, 34, 40 and 52 are new claims that define additional features of the invention. Applicant respectfully requests examination of Claims 29-52.

Respectfully submitted,



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